RECEIVED
CENTRAL FAX CENTER
AUG 17 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Caid, et al.
Serial No. : 09/672,237
Filed: September 27, 2000
Title: Context Vector Generation and Retrieval

Docket No.: ISAA0060
Art Unit: 2129
Examiner: Joseph P. Hirl

August 17, 2006

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

(X) under 37 CFR 1.97(b), or
(within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)

( ) under 37 CFR 1.97(c) together with either a:
- ( ) **Certification** under 37 CFR 1.97(e), or
- ( ) a $220.00 fee under 37 CFR 1.17(p), or

(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

( ) under 37 CFR 1.97(d) together with a:
- ( ) Certification under 37 CFR 1.97(e), and
- ( ) a $240.00 fee under 37 CFR 1.17(p)(1.97)(c), and
- ( ) a $130.00 petition fee set forth in 37 CFR 1.17(i)(1.97)(d)

(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

(X) The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 07-1445 (Order No. ISAA0060). A copy of this sheet is enclosed for accounting purposes.

(X) Applicant(s) submit herewith Form PTO SB/08 -- Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.25.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 156(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

Respectfully Submitted,

Julia A. Thomas

Julia A. Thomas
Reg. No. 52,283

Customer No. 22862

RECEIVED
CENTRAL FAX CENTER
AUG 17 2006

COPY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Caid, et al.
Serial No. : 09/672,237
Filed: September 27, 2000
Title: Context Vector Generation and Retrieval

Docket No.: ISAA0060
Art Unit: 2129
Examiner: Joseph P. Hirl

August 17, 2006

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

(X) under 37 CFR 1.97(b), or
(within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)

( ) under 37 CFR 1.97(c) together with either a:
( ) **Certification** under 37 CFR 1.97(e), or
( ) a $220.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

( ) under 37 CFR 1.97(d) together with a:
( ) Certification under 37 CFR 1.97(e), and
( ) a $240.00 fee under 37 CFR 1.17(p)(1.97)(c), and
( ) a $130.00 petition fee set forth in 37 CFR 1.17(i)(1.97)(d)
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

(X) The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 07-1445 (Order No. ISAA0060). A copy of this sheet is enclosed for accounting purposes.

COPY

(X) Applicant(s) submit herewith Form PTO SB/08 – Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.25.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 156(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

Respectfully Submitted,

Julia A. Thomas

Julia A. Thomas
Reg. No. 52,283

Customer No. 22862

RECEIVED
CENTRAL FAX CENTER
AUG 17 2006

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No. ISAA0060	Serial No.: 09/672,237
	Applicant: Caid, et al.	
	Filing Date: September 27, 2000	Group: 2129

U.S. Patent Application Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
		4,730,529	03/08/88	Gallant			
		4,959,870	9/25/90	Tachikawa			
		5,005,206	4/2/91	Naillon, et al.			
		5,161,204	11/3/1992	Hutcheson, et al.			
		5,239,594	8/24/93	Yoda			
		5,263,097	11/16/93	Katz, et al.			
		5,274,714	12/28/93	Hutcheson, et al.			
		5,287,275	2/15/94	Kimura			
		5,313,534	5/17/94	Burel			
		5,317,507	5/31/94	Gallant			
		5,325,298	6/28/94	Gallant			
		5,465,308	11/7/1995	Hutcheson, et al.			

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation Yes	Translation No

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
		Brown, P.F., et al. " A Statistical approach to Machine Translation", Computational Linguistics (June 1990) vol. 16. no. 2. p79-85
		Crouch, C.J., "An Approach to the Automatic Construction of Global Thesauri," Information Processing& Management, (1990), Vol. 26, No. 5, pp. 629-640.
		Cutting, D.R., *et al.*, "ScatterlGather: A Cluster-based Approach to Browsing Large Document Collections," 1 5th Ann Int'l SIGIR, (1 992), pp. 1-1 2.
		Deerwester, *et a/.*, "Indexing by Latent Semantic Analysis," Journal of the American Society for Information Science, (1 990) 41 (6) pp. 391 -407
		Dowe, J., "Content-based Retrieval In Multimedia Imaging," Proc. SPIE, Vol. 1908, April 1993, pp. 164-167.
		Egghe, L., "A New Method for Information Retrieval, Based on the Theory of Relative Concentration,"Proceedings of the 13'~ International Conference on Research and Development in Information Retrieval, (September 5-7, 1990), pp. 469-493.
		Evans, *et al.*, "Automatic Indexing Using Selective NLP And First-Order Thesauri," Departments of Philosophy and Computer Science Laboratory for Computational Linguistics, Carnegie Mellon University, Pittsburgh, PA, pp. 624-639.
		Gallant, S.I., "A Practical Approach for Representing Context and for Performing Word Sense Disambiguation Using Neural Networks," Neural Computation 3, (1991), pp. 293-309.

Attorney Docket No. ISAA0060

		Grefenstette, G., "Use of Syntactic Context to Produce Term Association Lists for Text Retrieval,"Computer Science Department, University of Pittsburgh, Pittsburgh, PA, (1992), pp. 89-97.
		Kimoto, H., *et al.*, "Construction of a Dynamic Thesaurus and Its Use for Associated InformationRetrieval," Proceedings of the 13th International Conference on Research and Development in Information Retrieval, (September 5-7, 1990), pp.227-241.
		Kwok, K.L., "A Neural Network for Probabilistic Information Retrieval," Proceedings of the Twelfth Annual international ACMSIGIR Conference on Research and Development in Information Retrieval, (June 25-28, 1980), pp. 21-30.
		Liddy, et a/., "Statistically-Guided Word Sense Disambiguation," School of Information Studies, Syracuse University, Syracuse, New York, pp. 98-107.
		Lin, X., et al., "A Self-organizing Semantic Map for information Retrieval", Proceedings of the International ACM/SIGIR Conference on Research and Development in Information Retrieval, (1991), pp. 262-269.
		McCune , et al., "Rubric: A System for Rule-Based Information Retrieval." IEEE Transactions on Software Engineering, (1985), Vol. SE-11, No. 9, pp. 939-945.
		Myamoto, et al., "Generation of a Pseudothesaurus for information Retrieval Based on Co-occurrences and Fuzzy Set Operations." IEEE Transaction on Systems, Man, Cybernetics, (JanlFeb. 1983), Vol. SMC-13, NO. 1 ., p. 62-70.
		Niblack, W., "QBIC Project: Querying Images by Content, Using Color, Texture, and Shape," Proc. (SPIE, Vol. 1908, April 1993, pp. 173-187.
		Peat, et al., "The Limitations of Term Co-Occurrence Data for Query Expansion in Document Retrieval Systems," Journal of the American Society for information science,-(l991), 42(5), pp. 378-383.
		Qiu, et al, "Concept Based Query Expansion," Department of Computer Science. Swiss Federal Institute of Technology, Zurich, Switzerland, pp. 160-1 69.
		Ruge, G., "Experiments on Linguistically-Based Term Associations," information Processing & Management, (1992), Vol. 28, No. 3, pp. 317-332.
		Salton, G., et al. "A Vector Space model for Automatic Indexing", Comm. Of the ACS, (Nv. 1975) Vol. 18, No. 11, pp. 613-620
		Salton, G., et al., "Introduction to Modern Information Retrieval," McGraw-Hill Book Company, 118-155.
		Sekine, S., et al., "Automatic Learning for Semantic Collocation."
		Schutze, H., "Dimensions of Meaning," Proceedings Supercomputing, (Nov. 16-20, 1992), pp. 787-796.
		Sutcliffe, R.F.E., "Distributed Representations in a Text Based Information Retrieval System: a New Way of Using the Vector Space Model", Proc. Of the ACM/SIGIR Conf., Chicago, IL, (Oct 13-1 6, 1 WI), pp. 123-132.
		Turtle, H., et al., "Inference Networks for Document Retrieval", Proceedings of the 1 3th International -Conference on Research and Development in Information Retrieval, (September 5-7, 1 99O), pp. 1-25.
		Van Rijsbergen, C.J., "A Theoretical Basis For the Use of Co-Occurrence Data in Informational Retrieval", J of Documentation, (June 1977), Vol. 33, No. 2, pp. 106-1 19.
		Voorhees, E.M., et al., "Vector Expansion in a Large Collection," Siemens Corporate Research, Inc.,Princeton, New Jersey.
		Wilks, Y., et al., "Providing Machine Tractable Dictionary Tools," Computer Research Laboratory, 13553-05382 New Mexico State University, Las Cruces, New Mexico, pp. 98-1 54.
		Wong, S.K.M., et al., "On Modeling of Information Retrieval Concepts in Vector Spaces," ACM Transactions on Database Systems, (June 1987), Vol. 12, No. 2, pp. 299-321.

Attorney Docket No. ISAA0060

		Antonini, M, et al., "Image Codinn Usinn Wavelet Transform," Image Processing, IEEE Transactions, April 1992, Vol. 1, Issue 2, CNRS, Univ. de Nice-Sophia Antipolis, Valbonne, France.18 pages
		Petilli, Stephen G., "Image Compression With Full Wavelet Transform (FWT) and Vector Quantization, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, IEEE 1993, pages 906-910
		Martens, R.L.J., et al., "Coding of Image Textures Using Wavelet Decomposition and Hierarchal Multirate Vector Quantization," Dept. of Electronic Engineering, Toronto University, Ontario Canada, appears in Time-Frequency and Time-Scale Analysis, 1992, Proceedings of the IEEE-SP International Symposium, pages 101 - 104
		A. Yarnamoto, et al., "Extraction of Object Features and Its Application to image Retrieval," Trans. Of IEICE, Vol. E72, No. 6, pp. 771-781, June 1989
		Rickman, R.M. et al., "Imaqe Retrieval From Lame Databases Usinn A Neural Network Coding
		Scheme," Dept. Electrical & Electronic Engineering, Brunel University, Uxbridge, Middx. UB8 3PH.; Aslib Informatics Group and the Information Retrieval Specialist Group of the British Computer Society, The University of Michigan Libraries; pages 147-159
		Denk, Tracy, et al., "Combining Neural Networks And the Wavelet Transform For Image Compression," Dept. of Electrical Engineering, University of Minnesota, Minneapolis, MN; 1993 IEEE; Pages 1-637 to IY640
		Rickman, Rick, et al., "Similarity Retrieval From Image Databases - Neural Networks can deliver"; Neural Networks and Pattern Recognition Group, Department of Electrical and Electronic Engineering, Brunel University, Uxbridge, Middx U B ~ 3PH, U.K.,'SPIE Vol. 1908 (1 993); pages 85-94
		Faloutsos, C., et al., "Efficient and Effective Quervina bv Imane Content," Journal of Intelligent Issue 2, pages 62-72, 1994 Information Systems, Vol. 3, July 1994, pages 231-262
		Ireton, M.A., et al., "Classification of ShaDe For Content Retrieval of Imaqes In A Multimedia Database," Digital Processing of Signals in Communications, 1991 (IEE Conf. Pub. 340) University of Manchester, William R. Caid et al.
		Bach, Jeffrey R., et al., "A Visual information Management System for the Interactive Retrieval of Faces," Transactions on Knowledge and Data Engineering, Vol. 5, No. 4, August 1993, pages 619-628
		Mehrota, Rajiv, et al., "Feature-Based Retrieval of Similar Shades," Department of Computer Science, University of Kentucky, Lexington, Kentucky, Data Engineering, 1993, pages 108-1 15
		Shann, R., et al., "Detection of Circular Arcs for Content-Based Retrieval from an Image Database," IEE Proceedings - Vision, Image and Signal, Vol. 141, Issue 1, February 1994, pages 49-55
		Gong, Yihong, et al., "An Image Database System with Content Capturing and Fast Imam Indexinq Abilities," Multimedia, 1994 International Conference, 1994, pages 121 -1 30
		Del Bimbo, A., et al., A Spatio-Temporal Logic for Image Sequence Coding and Retrieval," Visual Languages. 1992, pages 228-230

Attorney Docket No. ISAA0060

		Davcev, Danco, et al., "A Query-Based Mechanism for Geometrical Objects Retrieval in Multimedia information System," System Sciences, Vol. 111, 1994, pages 581-589
		Kato, Toshikazu, et al:, "A Sketch Retrieval Method for Full Color Image Database," Pattern Recognition, Vol. 1, 1992, pages 530-533
		Herrmann, Per, et al., "Retrieval of Document images Using Layout Knowledge," Document Analysis, 1993, pages 537-540
		Grosky, William, et al., "Research Directions in Image Database Management," Data Engineering, 1992, pages 146-1 48
		Oda, Masaomi, et al., "What Kinds of Facial Features are Used in Face Retrieval," Robot and Human Communication, 1993, pages 265-270
		Hou, Tai-Yuan, et al., "Medical Image Retrieval by Spatial Features," Systems, Man and Cybernetics, 1992 International Conference, 1992, pages 1364-1 369
		Del Bimbo, Albert, et al., "Sequence Retrieval by Contents through Spatio Temporal Indexing," Visual Languages, 1993 IEEE Symposium, pages 88-92
		Gallant, S.I., et al., "Image Retrieval Using Image Context Vectors," Proceedings of the SPIE, The International Society for Optical Engineering, Vol. 2368, 1995, pages 2-1 2 Smoliar, Stephen W., et al. "Content-Based Video Indexinq and Retrieval," IEEE Multimedia, Vol. 1,
		Salton, G., et al., "A Vector Space Model for Automatic Indexing," Comm. Of the ACM, Vol. 18, November 1975
		Sutcliffe, R.F.E., et al. "Distributed Representations in a Text Based Information Retrieval Svstem: A New Wav of Using the Vector Space Model," Proc. SIGIR '91 Conf., ACM, Chicago, IL October 1991
		Van Rijsbergen, C.J., "A Theoretical Basis for the Use of the Co-Occurrence Data in Information Retrieval," J. of Documentation, Vol. 33, pages 106-119, June 1977
		Wong, S.K.M., et al., "On Modeling of Information Retrieval Concepts in Vector Spaces," ACM Trans or Database Systems, Vol. 12, pages 299-321, 1987
		C.C. Chang, et al., "Retrieval of Similar Pictures on Pictorial Databases," Pattern Recognition, Vol. 24, No. 7, pp. 675-680, January 1991
		C.C. Chang, et al., "Retrieving the Most Similar Svmbolic Pictures from Pictorial Databases," Information Processing & Management, Vol. 28, No. 5, pp. 581-588, January 1992
		S.K. Chang, et al., "Pictorial Data-Base Svstems," IEEE Computer Magazine Special Issue on Pictorial of Classification Societies, Kobe, Japan, March 27-30, 1996, Springer-Verlag, ~1998
		S.K. Chang, et al., "Iconic Indexing by 2-D Strings," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. PAMIQ, No. 3, pp. 413-427, May 1987
		Egghe, L., "A New Method For Information Retrieval. Based On The Theory Of Relative Concentration, Proceedings of the 13th International Conference on Research and Development in Information Retrieval, September 5-7, 1990, pp.. 469-493
		T. Gevers, et al., "Σniqma: An Image Retrieval System," IEEE 11TH IAPR international Conference on Pattern Recognition, pp. 697-700, 1992

Attorney Docket No. ISAA0060

		V.N. Gudivada, et al., "A Spatial Similarity Measure for Image Database Applications," Technical Report 91-1, Department of Computer Science, Jackson State University, Jackson Mississippi, pp. 1-12, April1992
		K. Hirata, et al., "Query by Visual Example Content Based Image Retrieval," Advances In Database Technology, pp. 56-71, March 1992
		M. Ioka, "A Method of Defining the .Similarity of Images on the Basis of Color Information," Bulletin of the National Museum of Ethnology Special, No 17, pp. 229-244, November 1992
		T. Kato, "Human Interface for Multimedia Database with Visual Interaction Facilities," Data Science, Classification and Related Methods, Proceedings of the Fifth Conference of the International Federation
		Salton, G., et al., "A Vector Space Model for Automatic Indexing," Comm. Of the ACM, Vol. 18, November 1975
		Sutcliffe, R.F.E., et al. "Distributed Representations in a Text Based information Retrieval System: A New Wav of Using the Vector Space Model," Proc. SIGIR '91 Conf., ACM, Chicago, IL October 1991
		Kofakis, et al., "Image Archiving by Content: An Object-Oriented Approach," SPIE Vol. 1234, Medical
		Lin, et al., "A Self-Organizing Semantic Map for information Retrieval," Proceedings of the 14th International ACM/SIGIR Conference on Research and Development in information Retrieval, pp. 262
		Kwok, K.L., "A Neural Network for Probabilistic Information Retrieval," Proceedings of the Twelfth Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, June 25-28, 1989, pp. 21-30
		E.T. Lee, "Similaritv Retrieval Techniaues," Pictorial Information Systems, Springer Verlag, pp. 128- 176.1980
		Turtle, H., et al., "Inference Networks for Document Retrieval," Proceedings of the 13th International Conference on Research and Development in Information Retrieval, September 5-7, 1990, pp. 1-25
		Van Rijsbergen, C.J., "A Theoretical Basis for the Use of the Co-Occurrence Data in Information Retrieval," J. of Documentation, Vol. 33, pages 106-119, June 1977
		Wong, S.K.M., et al., "On Modeling of information Retrieval Concepts in Vector Spaces," ACM Trans or Database Systems, Vol. 12, pages 299-321, 1987
		C.C. Chang, et al., "Retrieval of Similar Pictures on Pictorial Databases," Pattern Recognition, Vol. 24, No. 7, pp. 675-680, January 1991
		C.C. Chang, et al., "Retrieving the Most Similar Symbolic Pictures from Pictorial Databases," information Processing & Management, Vol. 28, No. 5, pp. 581-588, January 1992
		S.K. Chang, et al., "Pictorial Data-Base Systems," IEEE Computer Magazine Special Issue on Pictorial of Classification Societies, Kobe, Japan, March 27-30, 1996, Springer-Verlag, ~1998

Attorney Docket No. ISAA0060

		T. Kato, et al., " TRADEMARK: Multimedia Image Database System with Intelligent Human Interface," September 27,2000 Systems and Computers in Japan, Vol. 21, No. 11, pp. 33-46, 1990
		T. Kato, et al., "A Cognitive Approach to Visual Interaction," international Conference on Multimedia Information Systems MIS '91, pp. 109-1 20, January 1991
		Kimoto, H., "Construction of a Dynamic Thesaurus and Its Use for Associated information Retrieval," Proceedings of the 13th international Conference on Research and Development in information Retrieval, September 5-7, 1990, pgs. 227-2

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.